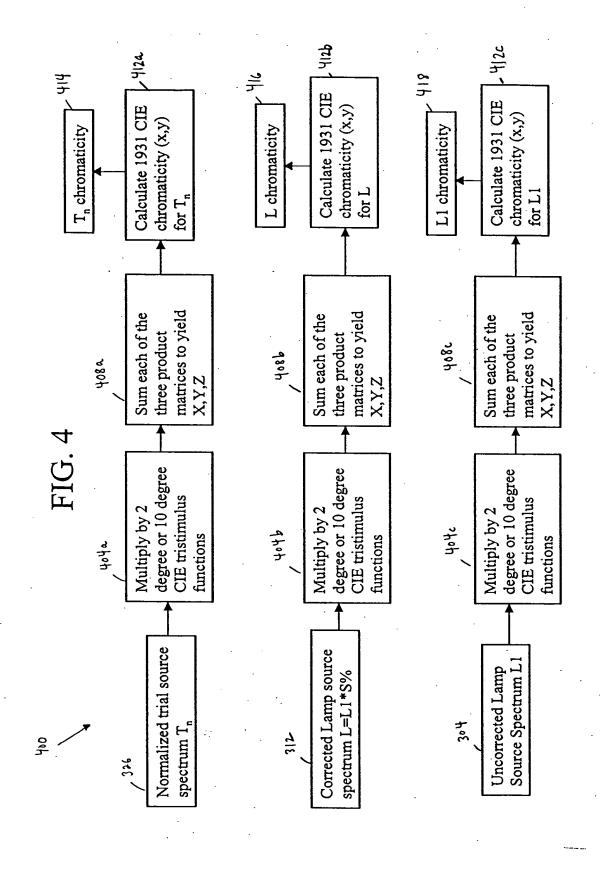
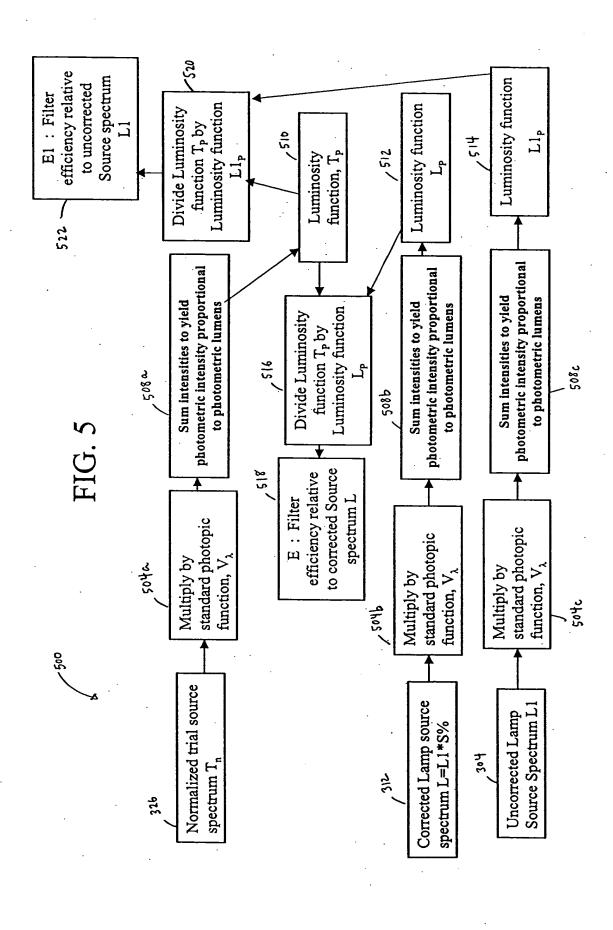
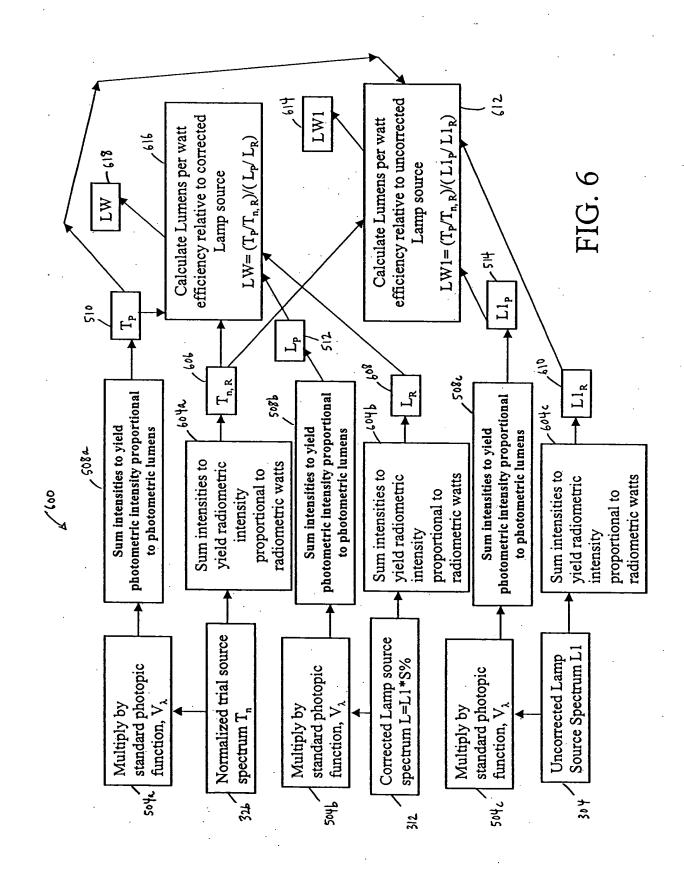


FIG. 3







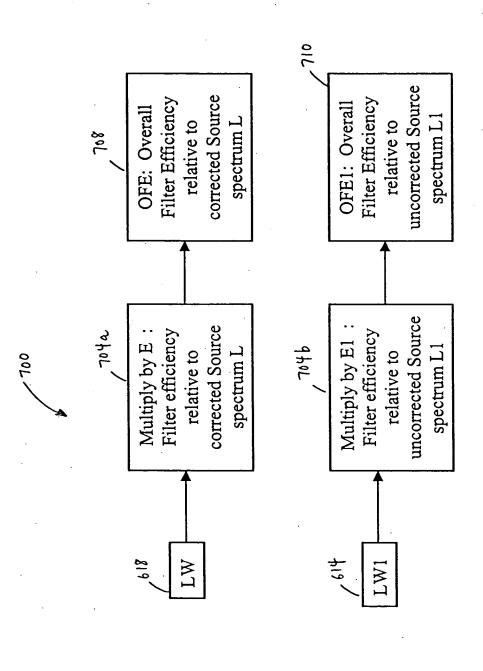


FIG. 7

}0%

WR= % lamp power through filter = $100*(L_{1R}-T_{n,R})/L_{1R}$

FIG. 8

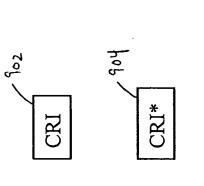


FIG. 9A

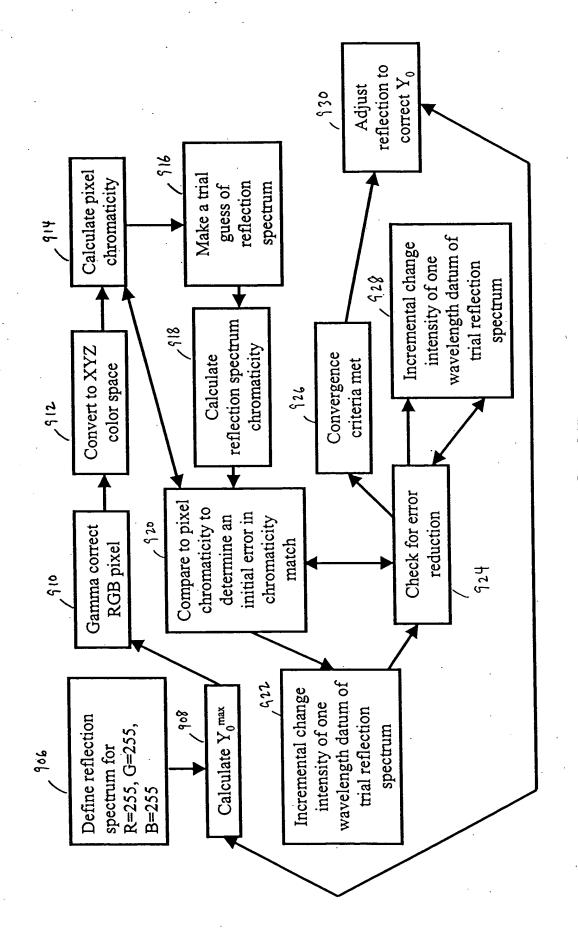
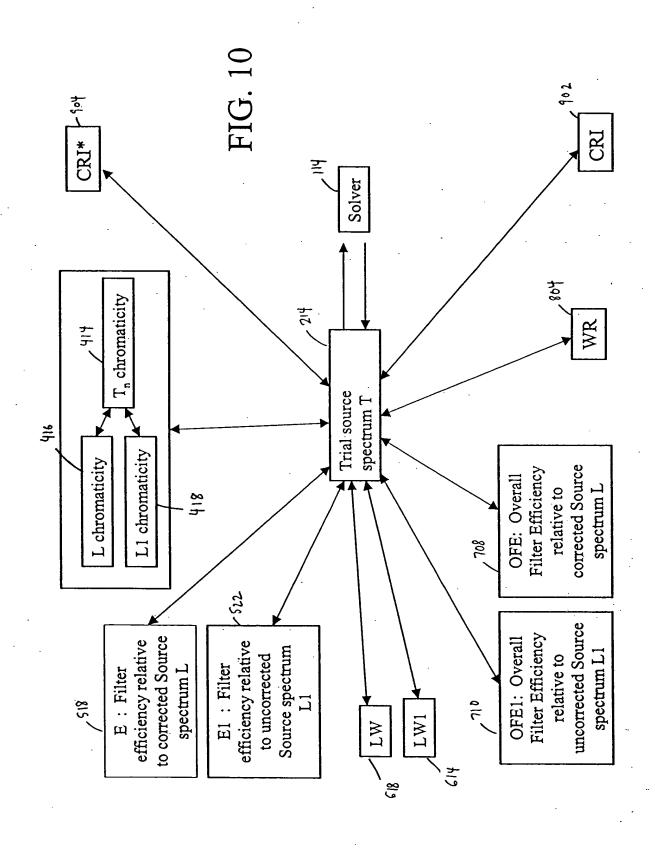


FIG. 9B





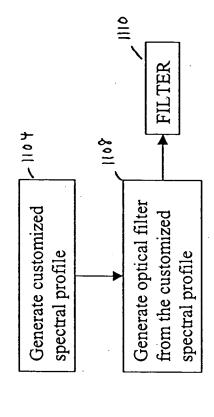


FIG. 1

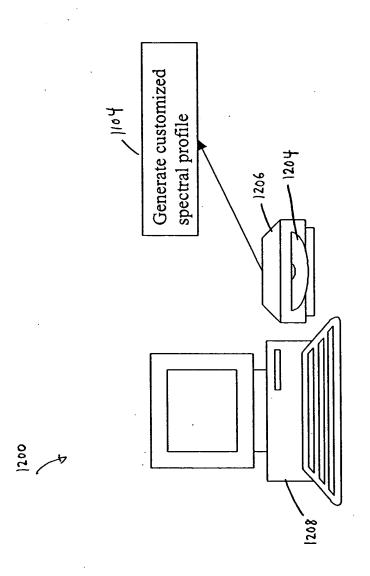


FIG. 12

Optimization toward high filter efficiency: Color temperature of filter matches color temperature of lamp, CRI-94.9, filter efficiency=97.7%, luminance/watt

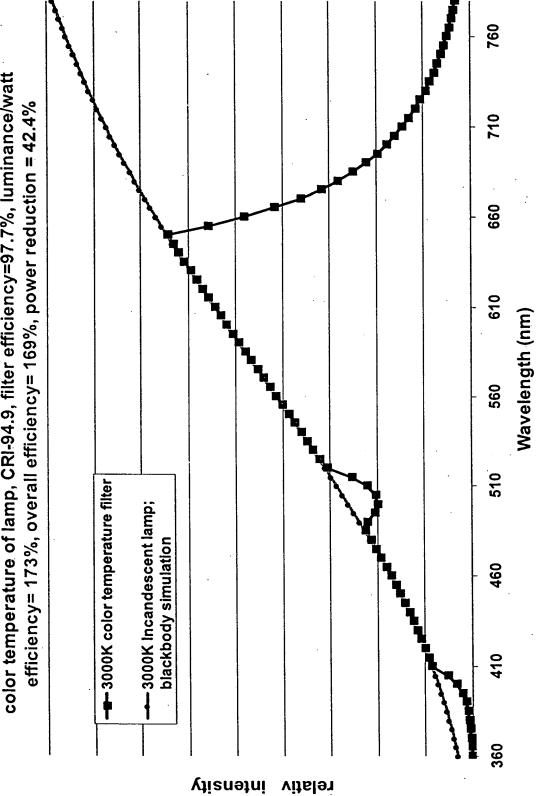


FIG. 13

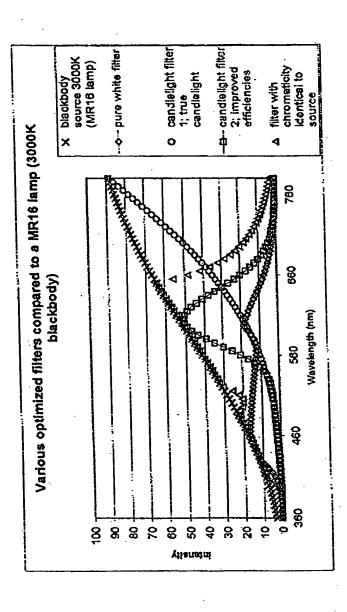


FIG. 14

Various optimized filters compared to incandescent lamp (3000K blackbody simulation)

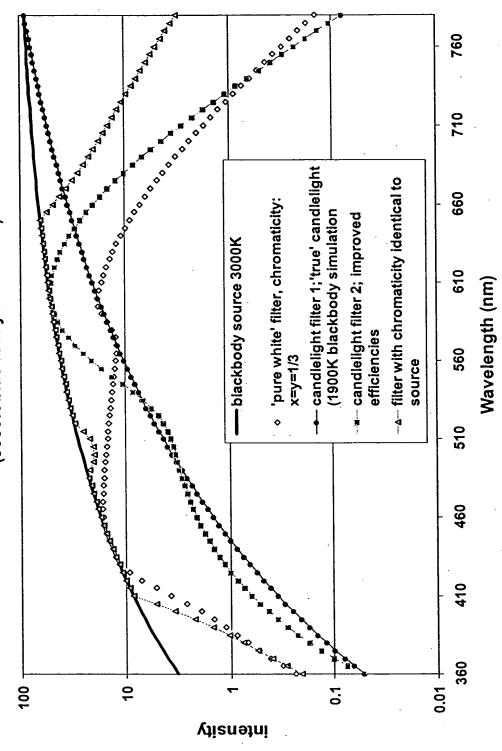


FIG. 15

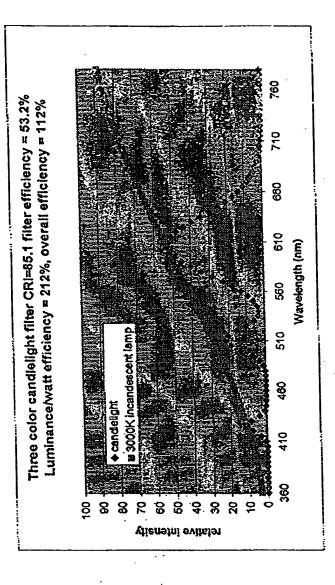


FIG. 16

efficiency=224%, overall efficiency = 50.8%, 1931 CIE chromaticity of light (x=0.400, y=0.395) Three color filter optimized to CRI=90.2, filter efficiency= 22.6%, luminance/watt

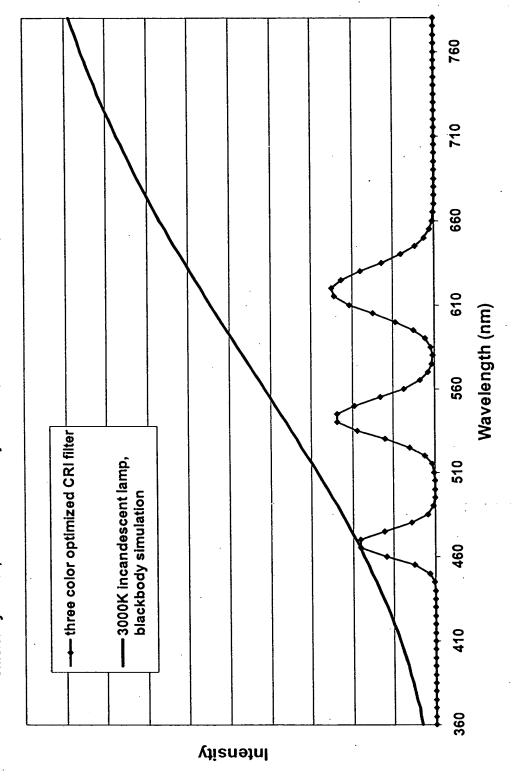


FIG. 17

Monet, La maison vue du jardin aux Roses, Musée Marmottan, Paris (left eye painting, 1925), three-Gaussian and discrete fits

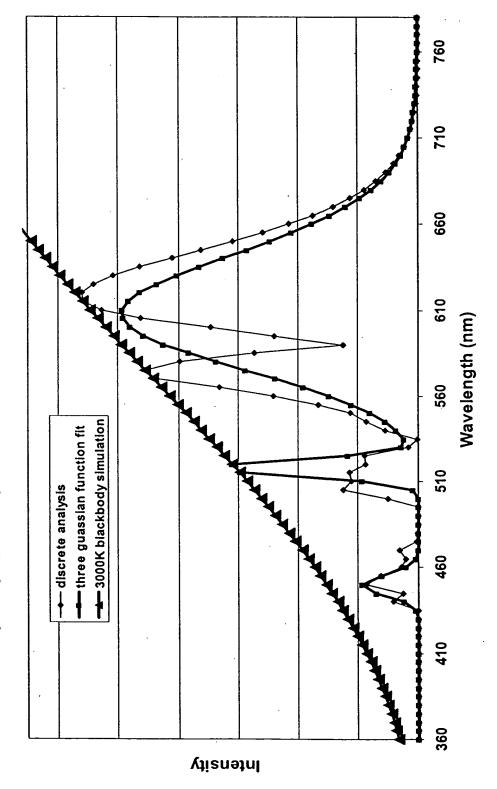


FIG. 18

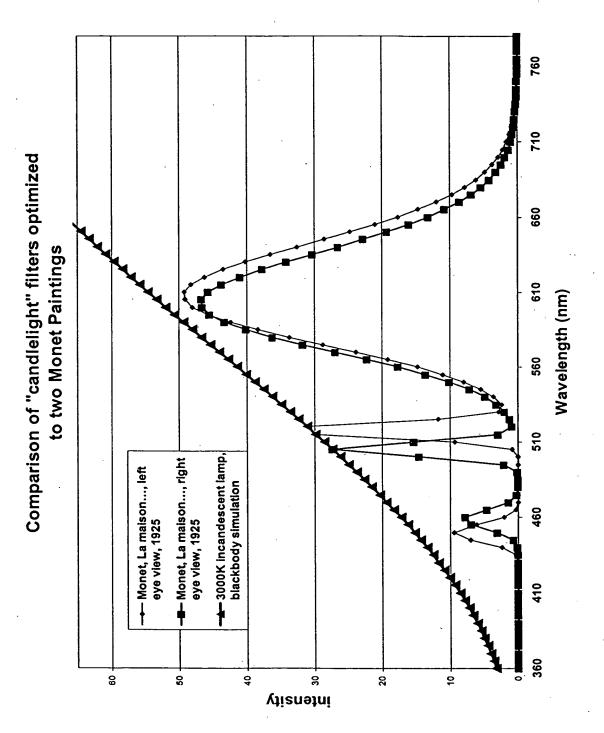


FIG. 19

760 Comparison of optimized filters for two Getty Museum drawings 099 610 Wavelength (nm) 260 510 -3000K black body illuminant simulation --- Draped Figure... → Cluade Lorrain 460 Untensity 8 . მ 6 6 8

FIG. 20

Comparison of weighted and unweighted CRI optimizations of blue sky feature of Cluade Lorrain's "Coast Scene with a Fight on a Boat"

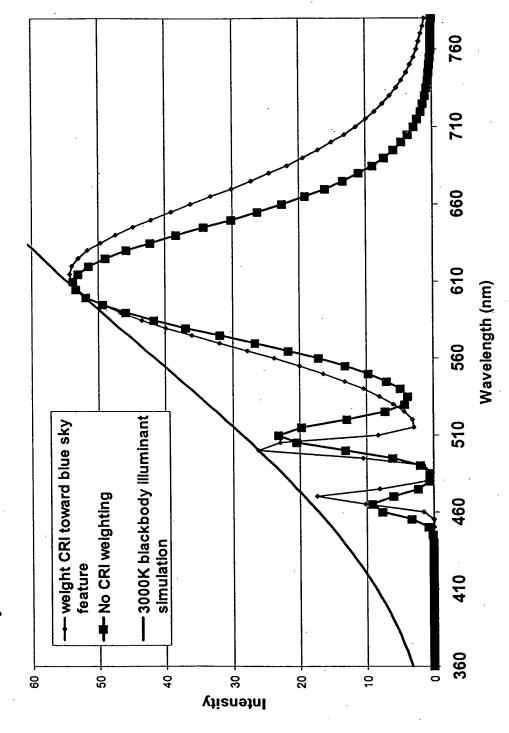


FIG. 21

760 Comparison of "candlelight" filters optimized 999 to three different works of art 560 610 wavelength (nm) 510 ←3000K incandescent lamp, blackbody simulation --- Monet, La maison..., right eye view, 1925" – Monet, La maison..., left eye view, 1925 Draped figure..., Getty Museum 460 410 99 20 6 tyienejuj Š 2 20

FIG. 22